

**ABSTRACT**

An electric compressor includes shaft (127) with forward leading groove (137) and reverse leading groove (139) both engraved on its outer wall. When a motor rotates forward, forward leading groove (137) pumps up lubricant through centrifugal pump (133) thereby lubricating sliding sections of the compressor. Reverse leading groove (139) has a lead directing opposite to that of the forward leading groove (137), and when the motor rotates reversely due to some reason, reverse leading groove (139) pumps up the lubricant through centrifugal pump (133) thereby lubricating the sliding sections.